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TO: Box 1450
Commissioner for Patents
2900 Crystal Drive
Arlington, Virginia 22202-1450

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Serial No.:	10/047,362	Confirmation 5588
Applicant:	R. A. Lindner	
TC A/U:	1713	
Filed:	14 January 2002	
Title:	Polyvinylchloride Products	
Examiner:	Mulcahy, Peter D.	
Docket:	1021-01	

Attached 8 page Amendment and 4 page Declaration.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Serial No.: 10/047,362 Confirmation 5588
Applicant: R. A. Lindner
TC A/U: 1713
Filed: 14 January 2002
Title: Polyvinylchloride Products
Examiner: Mulcahy, Peter D.
Docket: 1021-01

Box 1450
Commissioner for Patents
2900 Crystal Drive
Arlington, Virginia 22202-1450

Declaration under 132 by Robert A Lindner

As set forth below, I declare the following:

1. That my name is Robert A. Lindner and I am the declarant.
2. That I am the named inventor of United States patent application 10/047,362 confirmation 5588 filed 14 January 2002 (hereinafter referred to as the Patent Application).
3. That I prepared a series of polyvinylchloride formulations shown in the Patent Application.
4. That I was granted a Bachelor of Science degree from Bloomsburg University in 1961.
5. That I have been employed in the capacity of making, using and evaluating lubricants for polyvinylchloride processing for more than thirty-five years.
6. That according to the records of the United States Patent and Trademark Office I am the named inventor on at least 15 United States patents all of which relate to the processing of materials such as polyvinylchloride.
7. That I have authored several technical articles in various trade publications that relate to the processing of polyvinylchloride.
8. That I have made presentations relating to the processing of materials such as polyvinylchloride at symposiums throughout the world including the United States of America, Australia, People's Republic of China, the Federal

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Republic of Germany, Belgium, India, Peru, Argentina, Colombia, Thailand, Mexico, Chili, Brazil, Costa Rica, France, the Netherlands, and Venezuela.

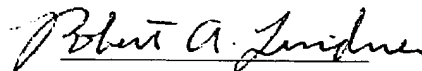
9. That I have consulted for manufacturers of rigid polyvinylchloride articles on the use of lubricants in polyvinylchloride processing throughout the world.
10. That I prepared and tested the five formulations shown in the attached TABLE I to obtain rigid polyvinylchloride articles.
11. That the five formulations shown TABLE I were prepared to obtain similar acceptable properties regarding fusion time, maximum torque, and equilibrium torque for the processing of polyvinylchloride into rigid polyvinylchloride articles.
12. That polyvinylchloride siding is considered in the art to be a rigid polyvinylchloride article.
13. That the five formulations shown TABLE I were prepared to demonstrate that formulations 1, 2, and 3 had acceptable properties which were statistically significant in the preparation of polyvinylchloride siding.
14. That to be acceptable for use as polyvinylchloride siding the siding must be capable of resisting puncturing or cracking when struck by an object.
15. That polyvinylchloride sidings formulations 4 and 5 having an impact resistance of 247.1 ft-lb/inch and 215.8 ft-lb/inch respectively are too soft to function as a polyvinylchloride siding and are not acceptable in resisting puncturing or cracking when struck by an object.
16. That to be acceptable for use as unpainted polyvinylchloride siding the siding must have low gloss.
17. That a polyvinylchloride siding formulation 4 and 5 having a % reflectance @ 60° of 65 and 91 respectively are too reflective to use as polyvinylchloride siding as shown in Table I.
18. That the polyvinylchloride sidings of formulation 1, 2, and 3 have acceptable impact resistance to puncturing or cracking when struck by an object as shown in Table I.
19. That a polyvinylchloride siding formulations 1, 2, and 3 have acceptable gloss at a % reflectance @ 60° as shown in Table I and the polyvinylchloride siding is acceptable for use without painting.

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20. That the Delta E at 15,000 hours result is a test of weatherability for rigid polyvinylchloride.
21. That polyvinylchloride siding formulations 1, 2, and 3 have acceptable weatherability per the Delta E at 15,000 hours results shown in Table I.
22. That I have reviewed each of United States Patent 4,133,794 to Lamb; United States Patent 4,447,569 to Brecker et al.; United States Patent 3,793,274 Hiyama et al.; United States Patent 3,905,927 to Anderson; and United States Patent 4,670,490 to Yoshida et al., all of which are the references cited in the Official Action of 8 October 2003.
23. That none of the references cited in the Official Action of 8 October 2003 teach in any way, alone or in combination to obtain a rigid polyvinylchloride article having an impact resistance of 247.1 ft-lb/inch or less and having a % reflectance @ 60° of less than 65.
24. That further the declarant sayeth not.
25. I, Robert A. Lindner, hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under SECTION 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.



Robert A. Lindner
24 February 2004

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Table I

	1	2	3	4	5
Polyvinylchloride	100	100	100	100	100
Acryloid KM 334					
Impact modifier*	5	5	5	5	5
CaCO ₃ (Superflex 200)	5	5	5	5	5
TiO ₂ (Titanox 2101)	10	10	10	10	10
Process aid Acryloid K120N	0	0	0	0	1.5
Stabilizer (Advastab TM 181)	1.2	1.2	1.2	1.2	1.2
Calcium stearate	1.0	1.0	1.0	1.0	1.0
Organic acid 45 carbon atoms	0.45	0.45	0.45	0.45	0
Paraffin (XL 165)				1.0	1.0
Ethylene glycol distearate	0.725	0	0	0	0
Hydrogenated tallow	0.725	0	0	0	0
Stearyl stearate	0	1.55	0	0	0
Distearyl phthalate	0	0	1.55	0	0
Impact, ft-lb/inch *	302.7	295	265.6	247.1	215.8
Gloss**	45	42	49	65	91
Delta E at 15,000 hours	5.2	6.1	5.5	6.7	6.6

* Impact measured by falling dart test

**Gloss is % reflectance @ 60°